



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,513	02/15/2006	Yoshinobu Ishigaki	JP920030171US1	9590
30/449 7590 06/03/2008 SCHMEISER, OLSEN & WATTS 22 CENTURY HILL DRIVE SUITE 302 LATHAM, NY 12110				
EXAMINER AVERY, JEREMIAH L				
ART UNIT 2131		PAPER NUMBER		
MAIL DATE 06/03/2008		DELIVERY MODE PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/568,513

Applicant(s)

ISHIGAKI ET AL.

Examiner

JEREMIAH AVERY

Art Unit

2131

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 January 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 23-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 23-32 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 February 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-8508)
- Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 33-42 have been cancelled.
2. Claims 23-32 have been examined.
3. Responses to Applicant's Remarks have been given.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 23-25 and 27-32 are rejected under 35 U.S.C. 102(e) as being anticipated by United States Patent No. 6,453,353 to Win et al., hereinafter Win.

1. Regarding claim 23, Win teaches a method for providing attribute data, said method comprising:

receiving a request from a user device via a network for a virtual ID token relating to attribute information pertaining to a subscriber associated with the user device (Figures 5A, 5C, column 2, lines 42-67);

responsive to the request for the virtual ID token, reading a data record from a database, said data record comprising L attributes of the subscriber, L being at least 2 (Figures 5a, 5b and 5e, column 10, lines 14-26 and 41-55, column 11 and lines 42-64); providing the data record to the user device via the network (Figures 1, 2 and 6-8, column 5, lines 1-12 and column 26, lines 14-67, "remote computer can load the instructions into its dynamic memory and send the instructions over a telephone line via a modem" "Communication interface 918 provides a two-way data communication coupling to a network link 920 that is connected to a local network 922" and "Network link 920 typically provides data communication through one or more networks to other data devices");

receiving, from the user device via the network, a selection of M attributes of the L attributes, M being less than L (Figure 10b, column 26, lines 14-67, "remote computer can load the instructions into its dynamic memory and send the instructions over a telephone line via a modem", "Communication interface 918 provides a two-way data communication coupling to a network link 920 that is connected to a local network 922" and "Network link 920 typically provides data communication through one or more networks to other data devices");

generating a virtual record including the M attributes selected from the data record, said virtual record comprising a virtual ID (VID) for identifying the virtual record (Figures 10a-10c, column 12, lines 32-55 and column 15, lines 35-52);

storing the generated virtual record in the database (column 3, lines 7-40, "storing, in the database an association of each resource to one or more of the roles", column 5, lines 13-20, column 12, lines 32-55 and column 15, lines 35-52);

and providing the virtual ID token to the user device via the network, wherein the virtual ID token comprises the VID (Figures 1, 2 and 6-8, column 2, lines 42-67, column 5, lines 1-12 and column 26, lines 14-67, "remote computer can load the instructions into its dynamic memory and send the instructions over a telephone line via a modem"

"Communication interface 918 provides a two-way data communication coupling to a network link 920 that is connected to a local network 922" and "Network link 920 typically provides data communication through one or more networks to other data devices"),

wherein an attribute information providing server performs said receiving the request for the virtual ID token, said reading the data record from the database, said providing the data record to the user device, said receiving the selection of M attributes, said generating the virtual record, said storing the generated virtual record in the database, and said providing the virtual ID token to the user device (column 3, lines 7-40, "storing, in the database an association of each resource to one or more of the roles", column 5, lines 13-20, column 11, lines 42-64, column 12, lines 32-55 and column 15, lines 35-52).

2. Regarding claim 24, Win teaches receiving a request comprising the VID for attribute information associated with the VID from an attribute information receiving apparatus via the network (Figures 10a-10c, column 12, lines 32-55 and column 15, lines 35-52);

reading the virtual record from the database in response to the request comprising the VID (column 3, lines 7-40, "storing, in the database an association of each resource to one or more of the roles", column 5, lines 13-20, column 11, lines 42-64, column 12, lines 32-55 and column 15, lines 35-52);

and after said reading, providing the virtual record to the attribute information receiving apparatus via the network (Figures 1, 2 and 6-8, column 2, lines 42-67, column 5, lines 1-12 and column 26, lines 14-67, "remote computer can load the instructions into its dynamic memory and send the instructions over a telephone line via a modem"

"Communication interface 918 provides a two-way data communication coupling to a network link 920 that is connected to a local network 922" and "Network link 920 typically provides data communication through one or more networks to other data devices"),

wherein the attribute information providing server performs said receiving the request comprising the VID, said reading the virtual record from the database, and said providing the virtual record to the attribute information receiving apparatus (column 2, lines 42-67, column 3, lines 7-40, "storing, in the database an association of each resource to one or more of the roles", column 5, lines 13-20, column 12, lines 32-55 and column 15, lines 35-52).

3. Regarding claim 25, Win teaches wherein said providing the virtual record to the attribute information receiving apparatus is performed in manner that ensures that the virtual ID is concealed from the attribute information receiving apparatus when the virtual record is received by the attribute information receiving apparatus (Figures 3b, 3c, 4, 5a-5e and 6, column 6, lines 41-54, column 8, lines 23-63, column 9, lines 41-60 and column 10, lines 41-63).

4. Regarding claim 27, Win teaches after said providing the virtual record to the attribute information receiving apparatus:

providing, by the attribute information providing server, an attribute certificate to the attribute information receiving apparatus in relation to a new transaction between the subscriber and the attribute information receiving apparatus, wherein the attribute certificate pertains to the M attributes in the virtual record provided to the attribute information receiving apparatus (column 5, lines 66 and 67, column 6, lines 1-9, column 17, lines 28-37, column 19, lines 56-63 and column 22, lines 41-46).

5. Regarding claim 28, Win teaches wherein the attribute information providing server comprises:

a customer record display unit for displaying the virtual record (Figures 10a-10c, column 17, lines 52-67 and column 18, lines 14-27);

an attribute selection unit for extracting the M attributes from the data record prior to said generating the virtual record (Figures 10a-10c, column 12, lines 32-55, column 15, lines 35-52 and column 16, lines 13-58);

Art Unit: 2131

a virtual record generation unit for performing said generating the virtual record (Figures 10a-10c, column 12, lines 32-55, column 15, lines 35-52 and column 16, lines 13-58);

a VID token issue unit for performing generating the virtual ID token prior to said providing the virtual token ID to the user device (Figures 5a, 5b and 5e, column 2, lines 42-67, column 10, lines 14-26 and 41-55, column 11 and lines 42-64);

a virtual record referencing unit for referencing the virtual record based on the VID prior to said providing the virtual record to the attribute information receiving apparatus (Figures 10a-10c, column 12, lines 32-55, column 15, lines 35-52 and column 16, lines 13-58);

and a virtual record issue unit for performing said providing the virtual record to the attribute information receiving apparatus (Figures 1, 2 and 6-8, column 2, lines 42-67, column 5, lines 1-12 and column 26, lines 14-67, "remote computer can load the instructions into its dynamic memory and send the instructions over a telephone line via a modem" "Communication interface 918 provides a two-way data communication coupling to a network link 920 that is connected to a local network 922" and "Network link 920 typically provides data communication through one or more networks to other data devices").

6. Regarding claim 29, Win teaches wherein the VID token further comprises a URL of the attribute information providing server (Figures 3a-3c, column 5, lines 13-21, 66 and 67, column 6, lines 1-9 and 58-65, column 7, lines 45-57, column 8, lines 5-63 and column 14, lines 34-43 and 56-67).

7. Regarding claim 30, Win teaches wherein the attribute information providing server is selected from the group consisting of a financial institution, an Internet Service Provider (ISP), and a shopping site on the network (column 26, lines 44-67).

8. Regarding claim 31, Win teaches receiving a selection of M1 attributes of the L attributes in the data record, wherein the M1 attributes are not identical to the M attributes (Figure 10b, column 3, lines 7-40, "storing, in the database an association of each resource to one or more of the roles", column 5, lines 13-20, column 11, lines 42-64, column 12, lines 32-55, column 15, lines 35-52 and column 26, lines 14-67, "remote computer can load the instructions into its dynamic memory and send the instructions over a telephone line via a modem" "Communication interface 918 provides a two-way data communication coupling to a network link 920 that is connected to a local network 922" and "Network link 920 typically provides data communication through one or more networks to other data devices");

and storing a second virtual record in the database, wherein the second virtual record comprises the M1 attributes, and wherein the attribute information providing server performs said receiving the selection of M1 attributes and said storing the second virtual record in the database (column 3, lines 7-40, "storing, in the database an association of each resource to one or more of the roles", column 5, lines 13-20, column 11, lines 42-64, column 12, lines 32-55 and column 15, lines 35-52).

9. Regarding claim 32, Win teaches wherein the data record comprises a globally-unique ID (GID) serving as a primary key of the data record, wherein the VID is a primary key of the virtual record, and wherein the VID is independent of the GID

Art Unit: 2131

(Figures 10a-10c, column 12, lines 32-55, column 15, lines 35-52 and column 16, lines 13-58).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Win as applied to claim 23, as cited above, and further in view of United States Patent No. 6,834,272 to Naor et al., hereinafter Naor.

10. Win significantly discloses the claimed invention as cited within claim 23; however Win fails to disclose the limitation found within claim 26. Naor discloses this limitation, as cited below.

11. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Naor within the teachings of Win in order for "any number of parties, via a center, to collectively compute any

function in a manner that preserves the privacy of the individual private inputs of the parties to the collective computation, even after the computation of the function has been completed" (*Naor* – column 4, lines 46-58).

12. Regarding claim 26, Naor teaches wherein said providing the virtual record to the attribute information receiving apparatus is performed using a 1-out-of-N OT (Oblivious Transfer) protocol (Figures 5 and 7, column 11, lines 30-67, column 12, lines 1-3 and 34-44, column 13, lines 42-55, column 17, lines 35-66 and column 19, lines 52-64).

Response to Arguments

13. Applicant's arguments, see page 10, filed 01/28/08, with respect to the objection to the Specification have been fully considered and are persuasive. The objection to the Specification has been withdrawn.

14. Applicant's arguments filed 01/28/08 have been fully considered but they are not persuasive. With regards to claim 23, the Examiner maintains the above-cited grounds of rejection, in particular but not limited to Figures 1, 2 and 6-8, column 5, lines 1-12, column 17, lines 28-38, "secure token" and column 26, lines 14-67, "remote computer can load the instructions into its dynamic memory and send the instructions over a telephone line via a modem" "Communication interface 918 provides a two-way data communication coupling to a network link 920 that is connected to a local network 922" and "Network link 920 typically provides data communication through one or more networks to other data devices".

15. Further, a token is an encrypted identification of one valid user or group on an external authentication system. On page 13 of the Applicant's Specification, it is stated

that "In the general acquirement, the attribute information receiving apparatus 50 connects to the attribute information providing server 10 by using the URL included in the VID token, presents the VID, and acquires the virtual record." Win discloses this within, but not limited to, column 3, lines 7-40, "storing, in the database an association of each resource to one or more of the roles", column 5, lines 13-20, column 12, lines 32-55 and column 15, lines 35-52. Thus, it is broadly interpreted by the Examiner that Win discloses, inter alia, the token.

Conclusion

16. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

17. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

19. The following United States Patents and Patent Application Publication are cited to further show the state of the art with respect to the protection and usage of credential information, such as:

United States Patent No. 6,915,271 to Meyer et al., which is cited to show a method and system for redeeming dynamically and adaptively characterized promotional incentives on a computer network.

United States Patent No. 5,903,721 to Sixtus which is cited to show a method and system for secure online transaction processing.

United States Patent No. 6,161,139 to Win et al., which is cited to show administrative roles that govern access to administrative functions.

United States Patent No. 6,182,142 to Win et al., which is cited to show distributed access management of information resources.

United States Patent No. 6,505,300 to Chan et al., which is cited to show a method and system for secure running of untrusted content.

United States Patent No. 6,542,927 to Rhoads, which is cited to show the linking of computers based on steganographically embedded digital data.

United States Patent No. 6,615,258 to Barry et al., which is cited to show an integrated customer interface for web based data management.

United States Patent No. 6,714,979 to Brandt et al., which is cited to show a data warehousing infrastructure for web based reporting tool.

United States Patent No. 4,926,479 to Goldwasser et al., which is cited to show a multiprover interactive verification system.

United States Patent Application Publication No. US 2001/0055388 to Kaliski, JR. which is cited to show server-assisted regeneration of a strong secret from a weak secret.

United States Patent No. 7,290,056 to McLaughlin which is cited to show monitoring latency of a network to a network to manage termination of distributed transactions.

20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEREMIAH AVERY whose telephone number is (571)272-8627. The examiner can normally be reached on Monday thru Friday 8:30am-5pm.

21. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

22. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 2131

/Jeremiah Avery/

Examiner, Art Unit 2131

/Ayaz R. Sheikh/

Supervisory Patent Examiner, Art Unit 2131